

**METHOD AND APPARATUS FOR KNURLING A WORKPIECE, METHOD
OF MOLDING AN ARTICLE WITH SUCH WORKPIECE, AND SUCH
MOLDED ARTICLE**

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ABSTRACT

A method and apparatus for knurling a workpiece in which the knurl pattern includes grooves of at least two different configurations. The apparatus includes a knurl wheel holder that allows angular rotation of the knurl wheel about the holder longitudinal axis while maintaining the knurl wheel point of contact on the longitudinal axis. The apparatus also includes a knurling wheel that includes teeth of at least two different configurations. Also disclosed is a method of molding a molded article with the knurled workpiece to impart the inverse of the knurl pattern onto the molded article, such a molded article, a method of forming a structured abrasive article with the molded article, and such an abrasive article.

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